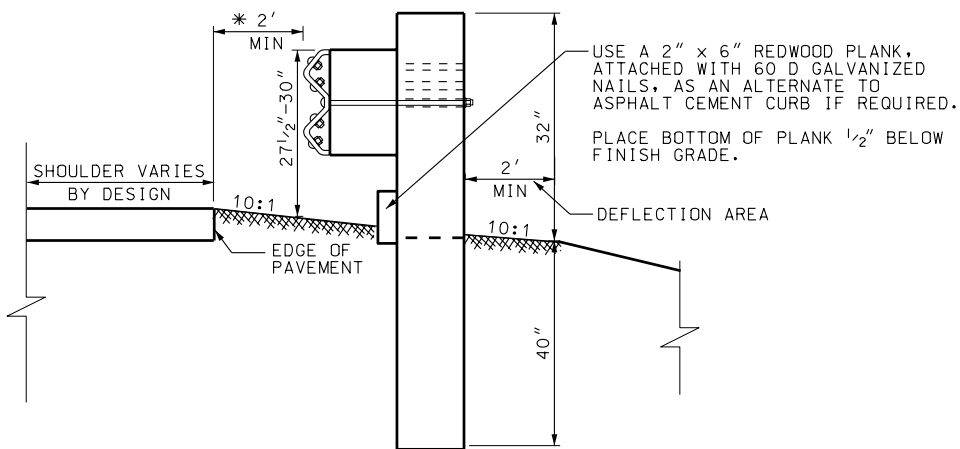
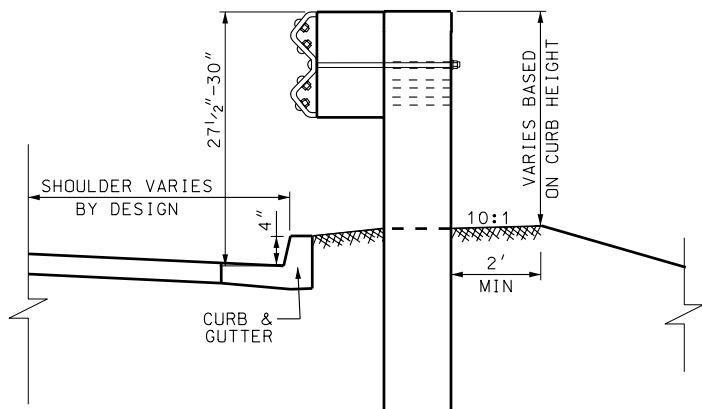


D:\N\Ed\Standard Drawings\Imperial\Approved\Barriers (BA)\BA04B.dgn 08-OCT-2003



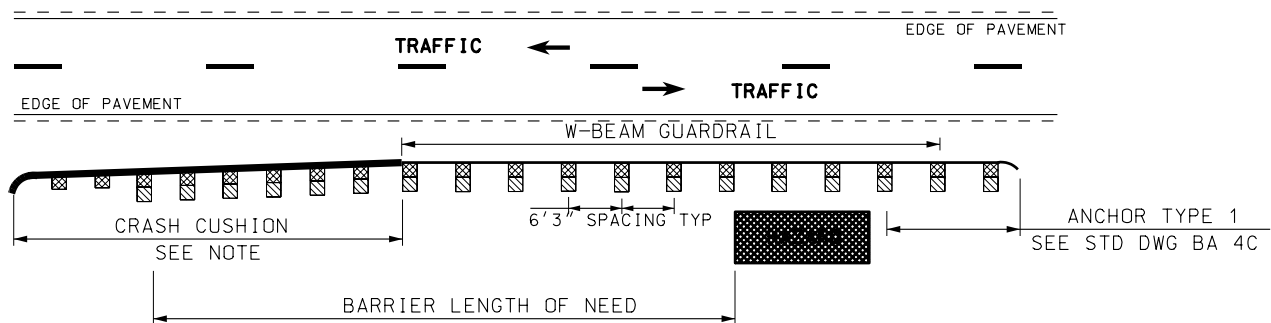
INITIAL INSTALLATION
USE 72inch LONG POSTS

* NOTE.
2' MINIMUM OR PLACE AS FAR OFF
PAVEMENT EDGE AS PRACTICAL.



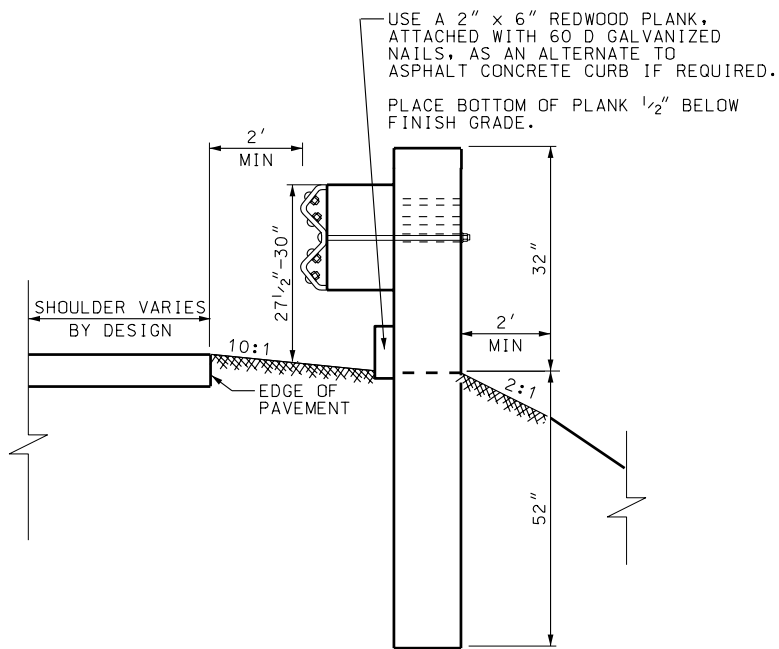
INSTALLATION W/CURB & GUTTER
USE 72 inch LONG POSTS

NOTE:
USE A MAXIMUM 4" CURB HEIGHT.
PLACE TOP FACE OF CURB EVEN
WITH FACE OF RAIL ELEMENT



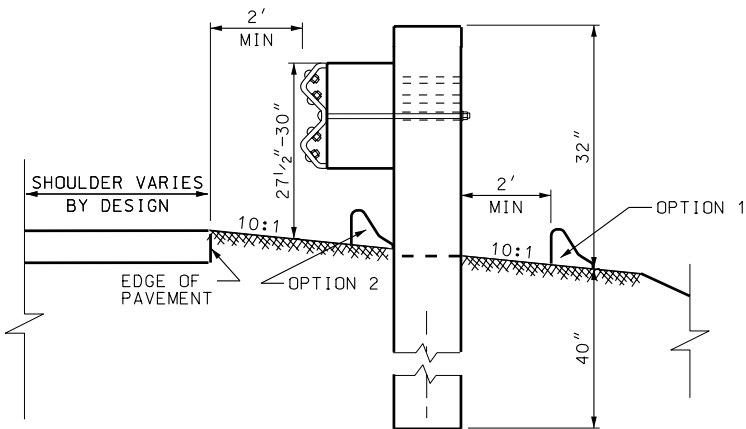
TYPICAL INSTALLATION

NOTE.
CRASH CUSHION REQUIRED WHEN BARRIER END IS WITHIN 1.2 TIMES
AASHTO ROADSIDE DESIGN GUIDE CLEAR ZONE.



INITIAL LONG POST INSTALLATION
USE 84inch LONG POSTS

NOTE:
USE THIS INSTALLATION WHEN THE
MINIMUM 2 FOOT DEFLECTION AREA
BEHIND RAIL CANNOT BE PROVIDED.

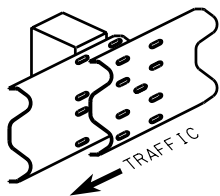


INSTALLATION
W/ASPHALT CONCRETE CURB

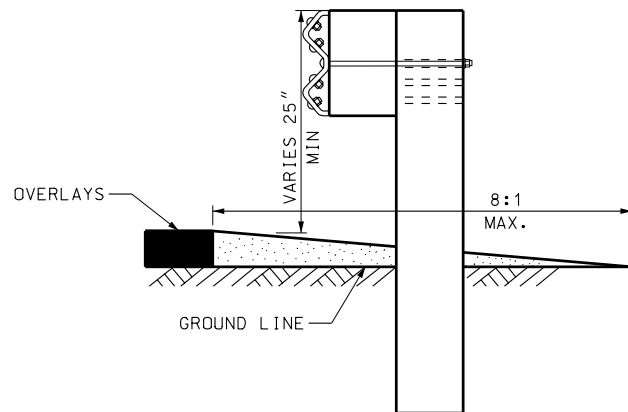
USE 72inch LONG POSTS

OPTION 1: PREFERRED INSTALLATION.

OPTION 2: PLACE FACE OF ASPHALT CONCRETE
CURB EVEN WITH FACE OF RAIL OR
BEHIND FACE OF RAIL.



SPLICE LAP DETAIL



RAIL ELEMENT RAISED

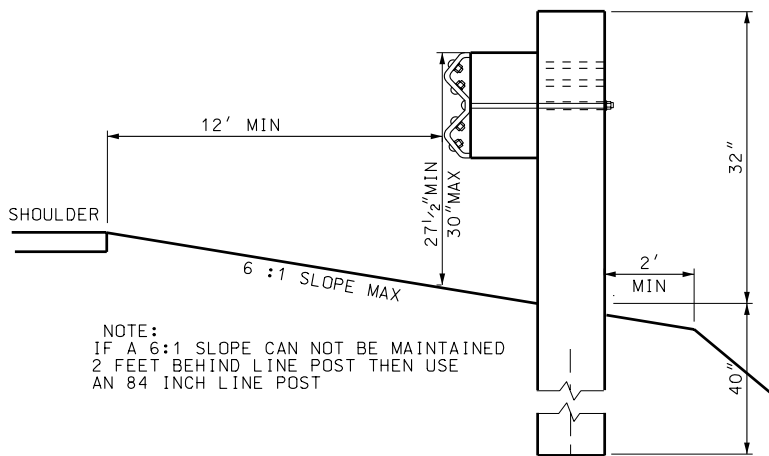
NOTES:
RAISE RAIL ELEMENT WHEN OVERLAY IS REQUIRED.

RAISED RAIL ELEMENT WILL ACCOMMODATE 6 TO 8
INCHES OF OVERLAY MATERIAL.

SLOPE OF SHOULDER INTO FACE OF RAIL NOT TO
EXCEED 8:1.

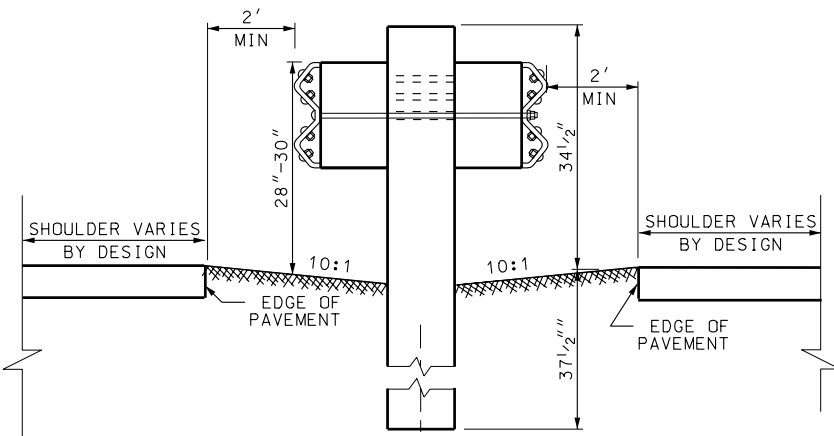
RAISE REDWOOD PLANKING WHEN REQUIRED.

RAISING THE RAIL ELEMENT TO MAXIMUM HEIGHT
REQUIRED BEFORE THE MINIMUM HEIGHT OF THE
RAIL ELEMENT ABOVE GROUND LEVEL CAN BE
REDUCED TO THE MINIMUM OF 25 INCHES.



OFFSET BARRIER INSTALLATION

NOTE:
IF A 6:1 SLOPE CAN NOT BE MAINTAINED
2 FEET BEHIND LINE POST THEN USE
AN 84 INCH LINE POST



MEDIAN BARRIER

NOTES:
RAISE BOTH RAIL ELEMENTS AS PER RAISE ELEMENT DETAIL
WHEN REQUIRED.

ATTACH REQUIRED DELINEATION ON THE POST.

REVISIONS		UTAH DEPARTMENT OF TRANSPORTATION		STANDARD DRAWING TITLE	
1	11/14/02	G.S.	REVISED RAIL HEIGHT, ADDED DETAIL "OFFSET BARRIER INSTALLATION" AND CHANGED TYPICAL INSTALLATION DETAIL	CHAIRMAN STANDARDS COMMITTEE APPROVED	BEAM GUARDRAIL INSTALLATIONS
		RECOMMENDED FOR APPROVAL			
		DATE			
		DEPUTY DIRECTOR			
		DATE			
		APPR.			
		DATE			
		NO.			
		REMARKS			